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F-069

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-269509

(43)Date of publication of application : 07.11.1988

(51)Int.CI.

H01G 4/42

(21)Application number : 62-104944

(71)Applicant : MATSUSHITA ELECTRIC IND CO LTD

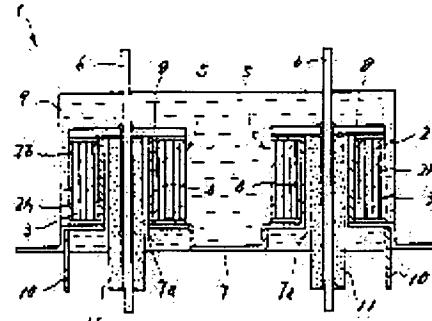
(22)Date of filing : 28.04.1987

(72)Inventor : YOSHINO HIRONORI

(54) THROUGH-TYPE HIGH-VOLTAGE CAPACITOR**(57)Abstract:**

PURPOSE: To prevent breakdown strength characteristic from deteriorating even after repeated thermal stress during a heat cycle by a method wherein a capacitor device where a plastic film sandwiched between two electrodes has been wound on the internal circumference of a winding spool is fixed to a conductor plate and an insulator is filled in the neighborhood of the plate so that the conductor plate can be fixed by using the insulator.

CONSTITUTION: A cylindrical capacitor device 5 is provided in such a way that at least one plastic film 3 is sandwiched between two electrodes 2A, 2B and that the film is wound on the external circumference of a winding spool 4. A through-type conductor 6 is installed in such a way that it pierces through a hollow part of the winding spool 4 of the capacitor device 5. One electrode 2A of the capacitor device 5 is connected electrically to a lower-part conductor plate 7 and is fixed to it. The other electrode 2B which has been extracted from an upper end of the capacitor device 5 is connected electrically to an upper-part conductor plate 8 and is fixed to it; the upper-part conductor plate 8 is also connected electrically to the through-type conductor 6 and is fixed to it. An insulator 9 such as an epoxy resin or the like is filled in the neighborhood of the upper-part and the lower part conductor plates 8, 7 to form an external package; an external case 10 is attached to the rear surface of the lower-part conductor plate 7, and the insulation between the through-type conductor 6 and the lower-part conductor plate 7 is reinforced.

**LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of
rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

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